

In-situ Microinjection Technology for Smart Materials

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Call for Submission

This editorial introduces the third volume of the *Embedded Selforganising Systems (ESS)* journal. The focus is on smart materials and its integrated an efficient production processes. Smart features build in materials are subject of difficult technological integration of different materials as polymers or metals and active components. This raises problems in the production processes due to contradicting physical and chemical characteristics of such materials. In addition active components with also specific characteristics must be integrated and interfaces must be added to provide power supply and to catch up data. Data items are probably restricted to very small sizes, e.g. single bits or analog signals. Evaluation or interpretation of such data items require new calculation methods, e.g. based on statistics of fuzzy methods.

This shows clearly that the integration of active components into smart materials are a highly challenging task. Different approaches can be thought of and results illustrated by case studies are actual very rare. So we encourage researchers and scientists for active discussion and contribution to the subjected of production of smart materials.

For this journal, we also choose a modern kind of electronic publication, which provides a flexible way to discuss latest research results. The advantages of such an e-journal are multifarious. In comparison to traditional paper journals we replace the classic review and creation process with a new Sliding Issue model.

Each issue starts with an initial editorial and an official call for papers. The submitted articles will be reviewed and, if accepted, published as soon as the final version is received by the committee. Based on this process, each sliding issue can be filled successive until the maximum number of article is reached. During this period, all accepted papers can already be read by other researchers while other papers are still in the reviewing process. Accordingly, the time to publish shrinks to an minimum. In Addition, multiple issues with different focus can co-exist at the same time, which provides completely new possibilities to react on latest research topics.

The journal allows also the integration of discussions and other reactions on published articles in the same journal issue.